

ABSTRACT
METHOD AND APPARATUS FOR GENERATING
SMI FROM ACPI ASL CONTROL CODE TO EXECUTE COMPLEX TASKS

Embodiments of the present invention provide for generation of SMI from ACPI ASL control method code to execute complex tasks including, but not limited to, transferring or searching through large amounts of data dynamically. Instead of executing certain tasks using limited ASL functionality, an SMI is generated in an ASL code execution path to enable usage of a CPU instruction set accessible to the SMM handler. In particular, an ACPI operation region is defined for an I/O address location capable of triggering an SMI. An ACPI control method accesses the SMI generation I/O address location to generate an SMI during ASL code execution when a predefined complex task is encountered, thus enabling the SMI handler code to advantageously execute the complex task.